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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,463	06/27/2006	Zhendong Mike Zhou	061300-0843	8357
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777 EAST WI	SCONSIN AVENUE	MITCHELL, JOHN-PAUL N		
MILWAUKE	E, WI 53202-5306		ART UNIT	PAPER NUMBER
			3652	
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			01/21/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)				
10/549,463	ZHOU ET AL.				
Examiner	Art Unit				
John-Paul N. Mitchell	3652				

		John-Paul N. Mitchell	3652					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION.  Estimation of time may be available under the provision of 37 CFR 1136g). In no event, however, may a reply be timely filed after SK (6) MONTHS from the mailing date of this communication. 1136g). In no event, however, may a reply be timely filed after SK (6) MONTHS from the mailing date of the communication.  If NO period for reply is specified above, the measurem statutory period will apply and will expire SK (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for raply with by statute, cause the application to become ARMONED (SS U.S.C. § 13S).  Failure to reply within the set or extended period for raply with type statute, cause the application to become ARMONED (SS U.S.C. § 13S).  Failure to reply within the set or extended period for raply with cause of the period will apply and will experience the property of the set of the period will apply and the perio								
Status								
2a)□	Since this application is in condition for allowar	action is non-final. nce except for formal matters, pro		e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrav Claim(s) is/are allowed.  Claim(s) 1-19 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.						
Applicati	ion Papers							
10)🖾	The specification is objected to by the Examine The drawing(s) filed on 14 September 2005 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	rre: a)⊠ accepted or b)□ objec drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).				
Priority (	ınder 35 U.S.C. § 119							
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b □ Some * c) □ None of:  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
1) Notice	ut(s) ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					

- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  3) Imformation Disclosure Statement(s) (PTO/SD/08)
- Paper No(s)/Mail Date 20050914, 20051117.
- Paper No(s)/Mail Date.
- 5) Notice of Informal Patent Application.
- 6) Other: \_\_

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#### DETAILED ACTION

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-8, 10-16, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Backer et al. (US Patent 5,249,643) in view of Raisio (US Patent 5,102,284). Backer et al. teach a land vehicle having a material handling apparatus comprising:

a support structure (Fig. 3, 3) coupled to a plurality of wheels (prox. 4), a cab (1) coupled to the support structure, a riser (11), coupled to the support structure, with a first telescopic actuator (14), a boom (Fig. 1, 27), coupled to the riser, with a second telescopic actuator (28), a first hydraulic actuator (19) coupled to the support structure and the riser, a second hydraulic actuator (29) coupled to the riser and boom, and a third hydraulic actuator coupled to the boom and jib, and a control apparatus (Fig. 8; col. 6, lines 46-48) coupled to said actuators to selectively control the apparatus. Further, Backer et al. teach an actuated (Fig. 1, 33) work platform (8) coupled to the end of the boom.

Backer et al. fail to teach, however, a third telescoping portion, or jib, with an associated telescopic actuator, and an actuated hook coupled to said jib. Raisio teaches a material handling apparatus with a boom (Fig. 1, 2), riser (4), and iib (10), with an

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actuated (Fig. 3, 25) hook (18) attached to the jib. Backer et al. teach that it is common and well known in the art to provide plural actuated, telescoping arms as a material handling apparatus, while Raisio teaches that it is common and well known in the art to provide 3 actuated arms with a hook attached to the end as a material handling apparatus. Thus, it would have been obvious to a person having ordinary skill in the art to provide a, actuated jib having a telescopic actuator coupled to a boom, and a hook coupled to the jib, in order to increase the range of motion and mobility of a material handling apparatus.

Backer et al. further teach a land vehicle having a material handling apparatus further comprising a rotation assembly (Fig. 1, 3; col. 3, lines 34-36), wherein the telescopic actuators are hydraulic (col. 4, lines 64-68), wherein the control apparatus is mounted on the structure and operable from a location remote from the cab (Fig. 1), and wherein the structure is configured as a truck (Fig. 1, vehicle).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Backer et al. in view of Raisio as recited above, and further in view of Capers et al. (US Patent 4,678,392). Backer et al. in view of Raisio teach the vehicle with a material handling apparatus as disclosed above, but fail to teach wherein the riser is movably coupled to the support structure for translation along the support structure. Capers et al. teach wherein a material handling apparatus coupled to a vehicle is movably coupled such to allow for translation along the support structure (Fig. 1, prox. 23 and 25). At the time of invention, it would have been obvious to a person having ordinary skill in the art to couple a material handling apparatus as taught by Backer et al. in view of Raisio in such

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a way as to allow translation along the support structure in order to increase mobility and maneuverability of the handling apparatus.

Claims 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Backer et al. in view of Raisio as recited above, and further in view of Nist et al. (US Patent 4,941,546). Backer et al. in view of Raisio teach the vehicle with a material handling apparatus as disclosed above, but fail to teach wherein an outrigger assembly is coupled to the support structure. Nist et al. teaches a vehicle with a material handling apparatus that includes an outrigger assembly coupled to the support structure. At the time of invention, it would have been obvious to a person having ordinary skill in the art to provide at outrigger assembly to the support structure taught by Backer et al. in view of Raisio in order to increase stability of the support structure while the material handling apparatus is in use.

#### Conclusion

The prior art made of record and not relied upon, but considered pertinent to applicant's disclosure, includes: Wiemeri et al. (2001), Goiran et al. (2000), Chiron et al. (1996), Bean (2007), Muto et al. (1990), and Dimitriu (1988).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John-Paul N. Mitchell whose telephone number is (571) 270-5226. The examiner can normally be reached on 5/4/9.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saul Rodriguez can be reached on (571)272-7097. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Saúl J. Rodríguez/ Supervisory Patent Examiner, Art Unit 3652

J-PNM